

## PATENT ABSTRACTS OF JAPAN

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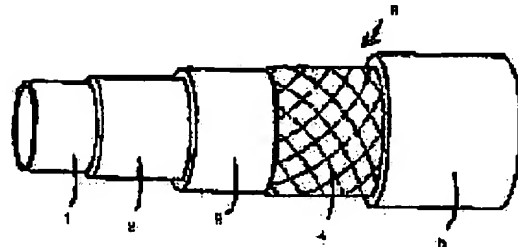
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## (54) NONTRANSPARENT TYPE COMPOUND HOSE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To prevent damage and breakage of metal foil according to bending or the like of a hose, by using a laminate sheet, with a resin film layered to the metal foil and a reinforcement of large elongation resistance, to form a laminate layer, in the nontransparent type compound hose having the laminate layer including the metal foil.

**SOLUTION:** This nontransparent type compound hose 6 has a double layer structure successively providing from the innermost layer a IIR (butyl rubber)-made rubber inner tube 1, laminate layer 2, IIR-made elastic material layer 3, reinforcing layer 4 formed by blade winding a reinforcing thread, and an EPDM-made rubber outer tube 5. In that hose 6, the laminate layer 2 is formed by using a laminate sheet 11 fixing metal foil 9 of aluminum or the like and a canvas-made reinforcement 10 in sandwich shape between resin film layers 7, 8 of thin film formed by a thermoplastic resin of PET or the like. The metal foil 9 is bonded to the reinforcement 10 by a bonding agent, so as to prevent damage and breakage of the metal foil 9 due to acting of tensile force in the laminate layer 2.



## LEGAL STATUS

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